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EXPRESS MAIL LABEL NO.: EV329632523 US

PATENT APPLICATION

Docket No.: 14984.4.1.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL FOR INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing and pursuant to 37 C.F.R. § 1.97 is an Information Disclosure Statement.

Enclosed also are the following designated documents, as required under 37 C.F.R. §§ 1.97 and 1.98:

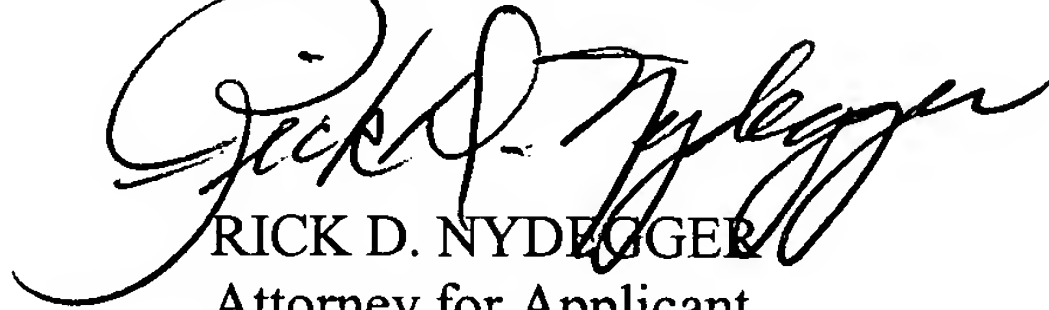
X Form PTO-1449 list of 90 references submitted for consideration.

X Legible copies of the listed references or their relevant portions.

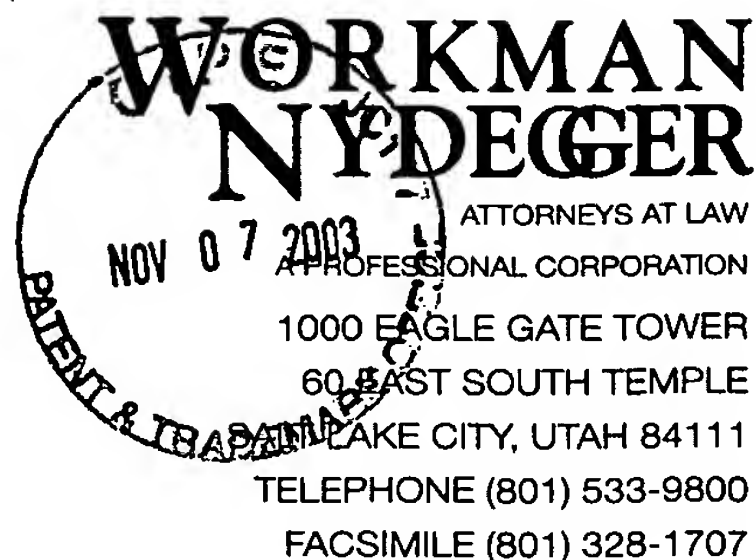
— All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. § 1.98(c)).

Dated this 7th day of November, 2003.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Rick D. Nydegger", is written over the printed name.

RICK D. NYDEGGER
Attorney for Applicant
Registration No. 28,651
Customer No. 022913



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EXPRESS MAIL LABEL NO.: EV 329632253 US

PATENT APPLICATION
Docket No.: 14984.4.1.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Beat Stamm, et al.

Serial No.: 10/606,047

Filed: June 24, 2003

Confirmation No.: 3820

For: AUTOMATIC OPTIMIZATION OF THE
POSITION OF STEMS OF TEXT CHARACTERS

Examiner: Unassigned

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or

more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

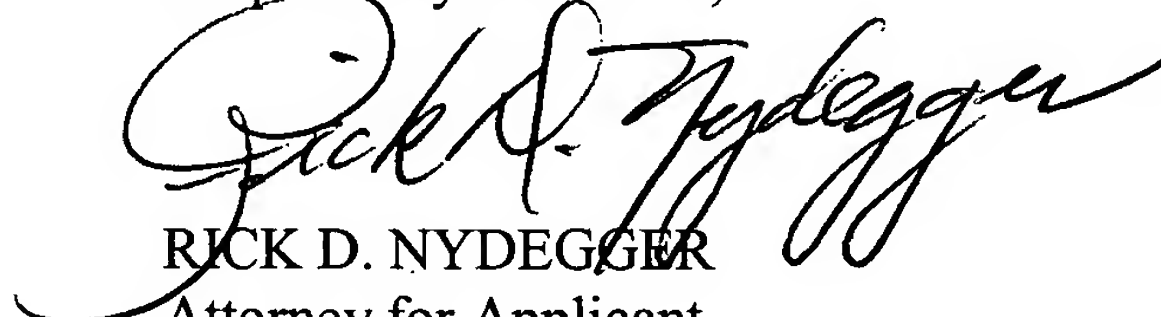
Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

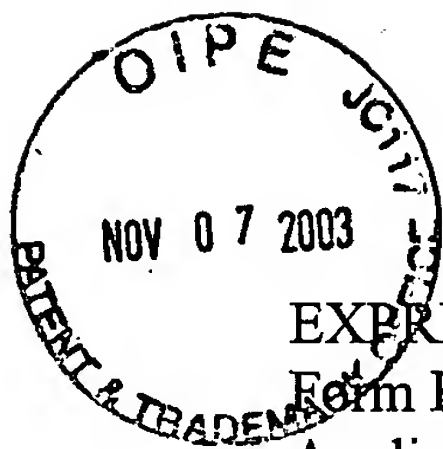
In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof is also enclosed.

In accordance with 37 C.F.R. § 1.98(c), all English translations within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) of each nonenglish reference, if any, are also enclosed.

Dated this 7th day of November, 2003.

Respectfully submitted,


RICK D. NYDEGGER
Attorney for Applicant
Registration No. 28,651
Customer No. 022913



EXPRESS MAIL LABEL NO.: EV 329632523 US

Form PTO-1449

Sheet 1 of 11

Applicant: Beat Stamm, et al.

Serial No.: 10/606,047

Att'y Docket No.: 14984.4.1.1

Filing Date: June 24, 2003

Group: 2672

Confirmation No.: 3820

For: AUTOMATIC OPTIMIZATION OF THE POSITION
OF STEMS OF TEXT CHARACTERS

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

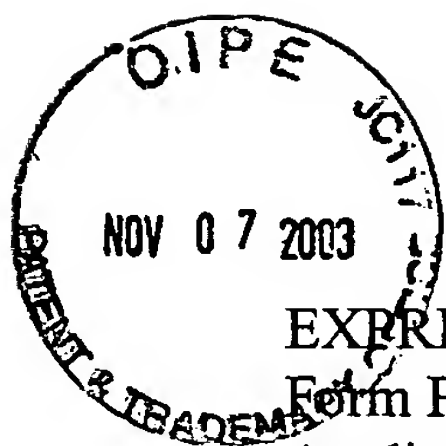
U.S. Patent Documents

<u>Examiner Initial*</u>	<u>Patent Number</u>	<u>Issue Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub Class</u>	<u>Filing Date</u>
_____ A1.	4,136,359	01/23/1979	Wozniak	358	17	04/11/1977
_____ A2.	4,217,604	08/12/1980	Wozniak	358	16	09/11/1978
_____ A3.	4,278,972	07/14/1981	Wozniak	340	703	01/08/1980
_____ A4.	4,600,274	07/15/1986	Morozumi	350	339	03/04/1983
_____ A5.	4,703,318	10/27/1987	Haggerty	346	723	04/16/1985
_____ A6.	4,851,825	07/25/1989	Naiman	340	728	07/24/1987
_____ A7.	5,057,739	10/15/1991	Shimada	313	477	12/28/1989
_____ A8.	5,113,455	05/12/1992	Scott	382	47	02/27/1990
_____ A9.	5,122,783	06/16/1992	Bassetti, Jr.	340	701	07/27/1990
_____ A10.	5,153,577	10/06/1992	Mackey	340	793	03/21/1988
_____ A11.	5,254,982	10/19/1993	Feigenblatt	345	148	01/12/1990
_____ A12.	5,298,915	03/29/1994	Bassetti, Jr.	345	149	06/16/1992

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Sheet 2 of 11

Applicant: Beat Stamm, et al.

Serial No.: 10/606,047

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Filing Date: June 24, 2003

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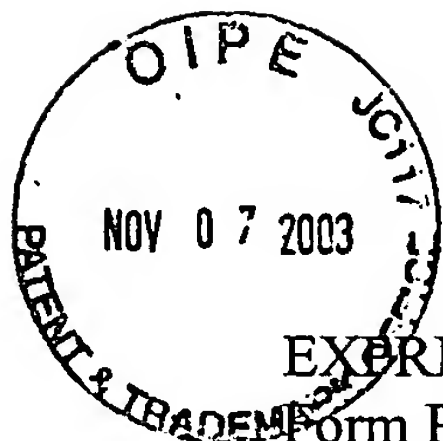
For: AUTOMATIC OPTIMIZATION OF THE POSITION
OF STEMS OF TEXT CHARACTERS

_____ A13.	5,325,479	06/28/1994	Kaasila	395	151	05/28/1992
_____ A14.	5,334,992	08/02/1994	Rochat	345	22	10/26/1987
_____ A15.	5,334,996	08/02/1994	Tanigaki	345	152	10/23/1990
_____ A16.	5,341,153	08/23/1994	Benzschawel	345	152	06/13/1988
_____ A17.	5,404,432	04/04/1995	Koopman	395	144	07/14/1993
_____ A18.	5,420,208	05/30/1995	Reid	525	326.5	06/01/1994
_____ A19.	5,444,460	08/22/1995	Fujitaka	345	144	10/15/1993
_____ A20.	5,467,102	11/14/1995	Kuno	345	1	03/28/1995
_____ A21.	5,502,490	03/26/1996	Takanashi	358	296	06/02/1995
_____ A22.	5,543,819	08/06/1996	Farwell	345	150	11/19/1993
_____ A23.	5,548,305	08/20/1996	Rupel	345	150	01/09/1992
_____ A24.	5,555,360	09/10/1996	Kumazaki	395	143	04/04/1991
_____ A25.	5,623,593	04/22/1997	Spells, III	395	172	06/27/1994
_____ A26.	5,633,654	05/27/1997	Kennedy, Jr.	345	114	03/16/1995
_____ A27.	5,663,772	09/02/1997	Uehara	348	671	03/27/1995

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Sheet 3 of 11

Applicant: Beat Stamm, et al.

Serial No.: 10/606,047

Att'y Docket No.: 14984.4.1.1

Filing Date: June 24, 2003

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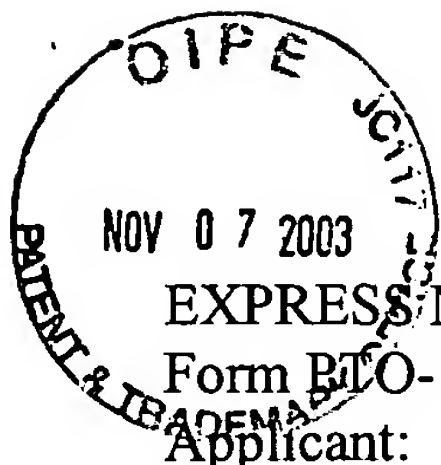
For: AUTOMATIC OPTIMIZATION OF THE POSITION
OF STEMS OF TEXT CHARACTERS

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_____ A29.	5,689,283	11/18/1997	Shirochi	345	132	07/14/1995
_____ A30.	5,757,347	05/26/1998	Han	345	88	05/17/1993
_____ A31.	5,767,837	06/16/1998	Hara	345	152	04/16/1993
_____ A32.	5,821,913	10/13/1998	Mamiya	345	88	12/14/1995
_____ A33.	5,847,698	12/08/1998	Reavey	345	173	09/17/1996
_____ A34.	5,857,067	01/05/1999	Hassett	395	150	12/23/1993
_____ A35.	5,859,648	01/12/1999	Moore	345	471	07/21/1997
_____ A36.	5,894,300	04/13/1999	Takizawa	345	115	09/09/1996
_____ A37.	5,909,221	06/01/1999	Nakai	345	433	12/20/1995
_____ A38.	5,963,185	10/05/1999	Havel	345	83	09/27/1996
_____ A39.	5,982,387	11/09/1999	Hellmann	345	469	07/25/1996
_____ A40.	6,115,151	09/05/2000	Popovich	359	9	12/21/1999
_____ A41.	6,151,006	11/21/2000	Yanagi	345	94	07/24/1995
_____ A42.	6,157,390	12/05/2000	Cheng	345	467	09/20/1996

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Applicant: Beat Stamm, et al.

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Filing Date: June 24, 2003

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For: AUTOMATIC OPTIMIZATION OF THE POSITION
OF STEMS OF TEXT CHARACTERS

_____ A43.	6,175,372	01/16/2001	Ballard	345	470	06/27/1997
_____ A44.	6,211,859	04/03/2001	Lin	345	147	02/24/1998
_____ A45.	6,232,947	05/15/2001	Miyawaki	345	99	03/14/1995
_____ A46.	6,249,908	06/19/2001	Stamm	717	5	03/27/1998

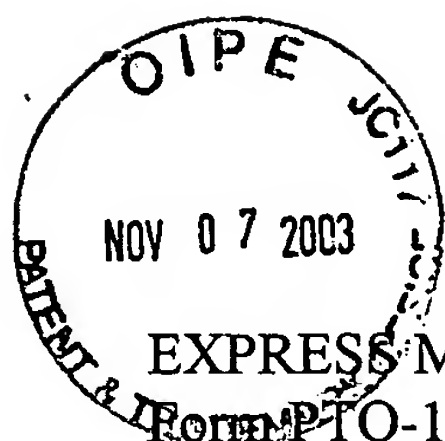
Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Publ. Date</u>	<u>Country or Patent Office</u>	<u>Sub Class</u>	<u>Class</u>	<u>Trans- lation</u>
_____ A47.	EP0330361 B1	04/21/1993	EPO	G09G	1/28	English
_____ A48.	EP0435391 B1	03/29/1995	EPO	G09G	3/20	English
_____ A49.	EP0526135 B1	02/03/1993	EPO	G02F	1/1343	English
_____ A50.	EP0673012 A2	09/20/1995	EPO	G09G	3/36	English

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EXPRESS MAIL LABEL NO.: EV 329632523 US

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Applicant: Beat Stamm, et al.

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Confirmation No.: 3820

For: AUTOMATIC OPTIMIZATION OF THE POSITION
OF STEMS OF TEXT CHARACTERS

Other Documents

(including author (if listed), title, relevant pages, date of publication including at least month and year).

Examiner

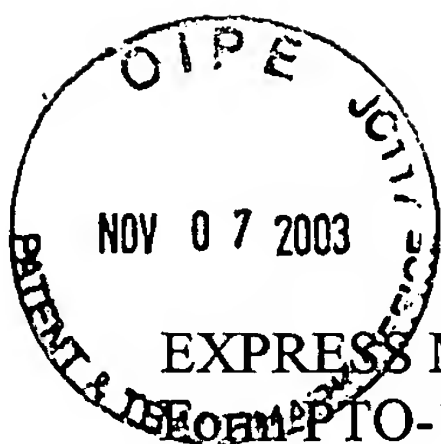
Initial*

- _____ A51. / Ahumada, A.J. et al. "43.1 A Simple Vision Model for Inhomogeneous Image-Quality Assessment" *1998 SID*
- _____ A52. / Barbier, B. "25.1: Multi-Scale Filtering for Image Quality on LCD Matrix Displays" *SID 96 Digest*
- _____ A53. / Barten, P.G.J. "P-8: Effect of Gamma on Subjective Image Quality" *SID 96 Digest*
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- _____ A55. Bedford-Roberts, J. et al. "10.4: Testing the Value of Gray-Scaling for Images of Handwriting" *SID 95 Digest, pp. 125-128*
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- _____ A57. Cordonnier, V. "Antialiasing Characters by Pattern Recognition" *Proceedings of the SID*, vol. 30, No. 1, 1989, pp. 23-28

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Sheet 6 of 11

Applicant: Beat Stamm, et al.

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For: AUTOMATIC OPTIMIZATION OF THE POSITION
OF STEMS OF TEXT CHARACTERS

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- _____ A58. Cowan, W. "Chapter 27, Displays for Vision Research" *Handbook of Optics, Fundamentals, Techniques & Design*, Second Edition, vol.1, pp 27.1-27.44.
- _____ A59. Crow, F.C. "The Use of Greyscale for Improved Raster Display of Vectors and Characters" *Computer Graphics*, vol. 12, No. 3, Aug. 1978, pp.1-5.
- _____ A60. Feigenblatt, R.I. "Full-Color Imaging On Amplitude-Quantized Color Mosaic Displays" *Digital Image Processing Applications, SPIE*, vol. 1075 (1989) pp. 199-205.
- _____ A61. Gille, J. et al. "Grayscale/Resolution Trade-Off for Text: Model Predictions and Psychophysical Results for Letter Confusion and Letter Discrimination" *Final Report*, Oct. 1992-Mar. 1995.
- _____ A62. Gould, J.D. et al. "Reading From CRT Displays Can Be as Fast as Reading from Paper" *Human Factors*, vol. 29 No. 5, pp. 497-517, Oct 1987.
- _____ A63. Gupta, S. et al. "Anti-Aliasing Characters Displayed by Text Terminals" *IBM Technical Disclosure Bulletin*, vol. 25, No. 12, May 1983, pp. 6434-6436.
- _____ A64. Hara Z. et al. "Picture Quality of Different Pixel Arrangements for Large-Sized Matrix Displays" *Electronics and Communications in Japan*, Part 2, vol. 77, No. 7, 1994, pp. 105-120.
- _____ A65. Kajiya, Jr. et al. "Filtering High Quality Text For Display on Raster Scan Devices" *Computer Graphics*, vol. 15, No. 3, Aug. 1981, pp. 7-15.
- _____ A66. Kato, Y. et al. "13.2: A Fourier Analysis of CRT Displays Considering the Mask Structure, Beam Spot Size, and Scan Pattern, 1998 SID
-

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Sheet 7 of 11

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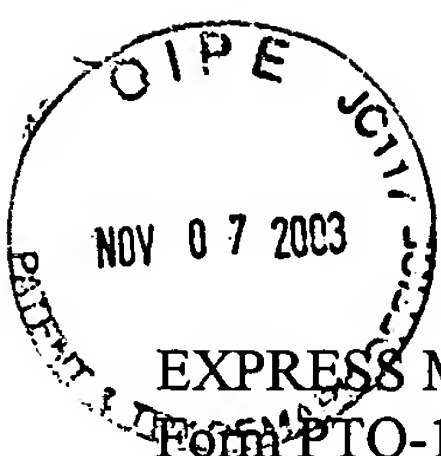
For: AUTOMATIC OPTIMIZATION OF THE POSITION
OF STEMS OF TEXT CHARACTERS

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- _____ A67. Krantz, J. et al. "4.5: Color Matrix Display Image Quality: The Effects of Luminance and Spatial Sampling" *SID 90 Digest*, pp. 29-32.
- _____ A68. Kubala, K. et al. "27:4: Investigation into Variable Addressability Image Sensors and Display Systems" *1998 SID*.
- _____ A69. Mitchell, D.P. "Generating Antialiased Images at Low Sampling Densities" *Computer Graphics*, vol. 21, No. 4, Jul. 1987, pp. 65-69.
- _____ A70. Mitchell, D.P. "Reconstruction Filters in Computer Graphics" *Computer Graphics*, vol. 22, No. 4, Aug. 1988, pp. 221-228.
- _____ A71. Morris, R.A. et al. "Legibility of Condensed Perceptually-Tuned Grayscale Fonts" *Electronic Publishing, Artistic Imaging, and Digital Typography*, 7th International Conference on Electronic Publishing, Mar. 30-Apr. 3, 1998, pp. 281-293.
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- _____ A73. Naiman, A. "Some New Ingredients for the Cookbook Approach to Anti-Aliased Text" *Proceedings Graphics Interface 84*, Ottawa, Ontario, May 28-Jun. 1, 1984, pp. 99-108.
- _____ A74. Naiman, A. et al. "Rectangular Convolution for Fast Filtering of Characters" *Computer Graphics*, vol. 21, No. 4, Jul. 1987, pp. 233-242.
- _____ A75. Naiman, A.C. "10.1: The Visibility of Higher-Level Jags" *SID 95 Digest* pp. 113-116.
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Sheet 8 of 11

Applicant: Beat Stamm, et al.

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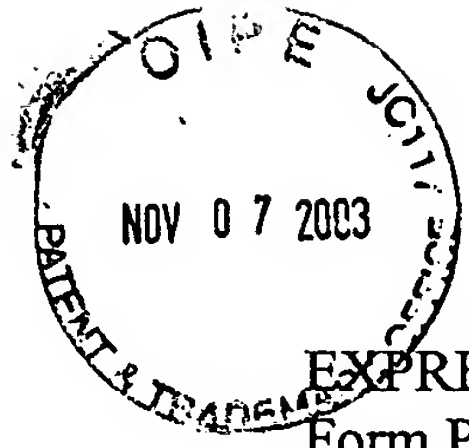
For: AUTOMATIC OPTIMIZATION OF THE POSITION
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- _____ A76. Peli, E. "35.4: Luminance and Spatial-Frequency Interaction in the Perception of Contrast" *SID 96 Digest*.
- _____ A77. Pringle, A. "Aspects of Quality in the Design and Production of Text" *Association of Computer Machinery*, 1979, pp. 63-70.
- _____ A78. Rohellec, J. Le et al. "35.2: LCD Legibility under Different Lighting Conditions as a Function of Character Size and Contrast" *SID 96 Digest*.
- _____ A79. Schmandt, C. "Soft Typography" *Information Processing 80, Proceedings of the IFIP Congress*, 1980, pp. 1027-1031.
- _____ A80. Sheedy, J.E. et al. "Reading Performance and Visual Comfort with Scale to Grey Compared with Black-and-White Scanned Print" *Displays*, vol. 15, No. 1, 1994, pp. 27-30.
- _____ A81. Sluyterman, A.A.S. "13.3: A Theoretical Analysis and Empirical Evaluation of the Effects of CRT Mask Structure on Character Readability" *1998 SID*.
- _____ A82. Tung, C. "Resolution Enhancement Technology in Hewlett-Packard Laser-Jet Printers" *Proceedings of the SPIE—The International Society for Optical Engineering*, vol. 1912, pp. 440-448.
- _____ A83. Warnock, J.E. "The Display of Characters Using Gray Level Sample Arrays" *Association of Computer Machinery*, 1980 pp. 302-307.
- _____ A84. Whitted, T. "Anti-Aliased Line Drawing Using Brush Extrusion" *Computer Graphics*, vol. 17, No. 3, Jul. 1983, pp. 151-156.
- _____ A85. Yu, S. et al. "43.3: How Fill Factor Affects Display Image Quality" *1998 SID*.
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Sheet 9 of 11

Applicant: Beat Stamm, et al.
Serial No.: 10/606,047
Filing Date: June 24, 2003
Confirmation No.: 3820
For: AUTOMATIC OPTIMIZATION OF THE POSITION
OF STEMS OF TEXT CHARACTERS

Att'y Docket No.: 14984.4.1.1
Group: 2672

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- _____ A87. "Exploring the Effect of Layout on Reading from Screen"
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- _____ A91. "The Legibility of Screen Formats: Are Three Columns Better Than One?" <http://fontweb/internal/repository/research/scrnformat.asp?RES=ultra> 16 pages, June 3, 1998.
- _____ A92. "The Raster Tragedy At Low Resolution" <http://www.microsoft.com/typography/tools/trtalr.htm?fname=%20&fsize>, March 25, 1998.
- _____ A93. "The TrueType Rasterizer" <http://www.microsoft.com/typography/what/raster.htm?fname=%20&fsize>, June 30, 1997.
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Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



EXPRESS MAIL LABEL NO.: EV 329632523 US

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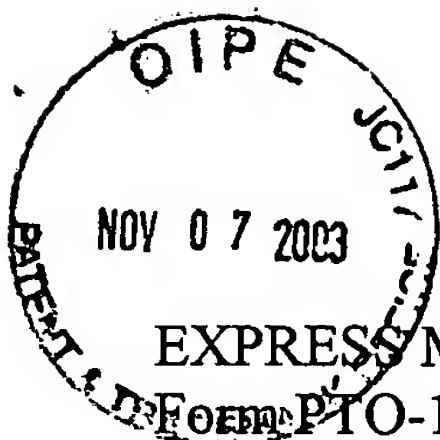
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_____ A96. "Typographic Research" <http://fontweb/internal/repository/research/research2.asp?RES=ultra> June 3, 1998.

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References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

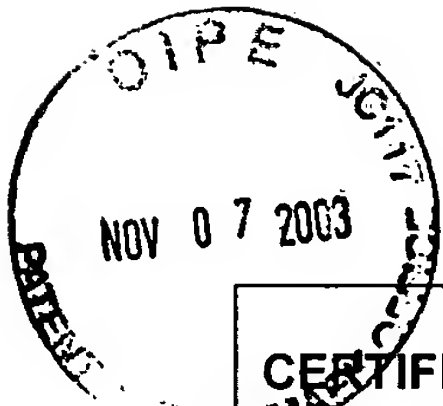
The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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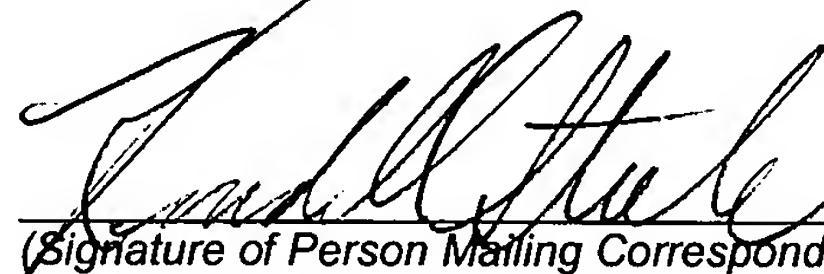
Applicant(s): Beat Stamm, et al.

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14984.4.1.1Serial No.
10/606,047Filing Date
June 24, 2003Confirmation No.
3820Examiner
UnassignedGroup Art Unit
2672

Invention: AUTOMATIC OPTIMIZATION OF THE POSITION OF STEMS OF TEXT CHARACTERS

I hereby certify that the Transmittal letter (2 pages) (in triplicate); Information Disclosure Statement (2 pgs); Form PTO-1449 Listing all Cited References (11 pgs); Legible Copies of 96 Cited References; and postcard are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 7, 2003.

Kendell Steele

*(Typed or Printed Name of Person Mailing
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